

JUSTIFICATION FOR ADD ON COURSE ON HORTICULTURE

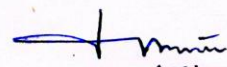
Horticulture is the branch of science dealing with growth and development of plants mainly concerned with fruits, vegetables, ornamentation as well as other additional services. In generalized sense horticulture can be specified as artful application of scientific techniques for production, maintenance and processing of different plants and their resources. The plants mainly being considered in this practice are mainly fruits, vegetables, nuts, spices, vegetables, flowers, turf as well as trees. Although, many a times horticulture is considered related and as a subdivision to agriculture, it is quite different from agriculture in the sense that horticulture is performed in smaller plots and includes plants which are not limited to consumption, but also those with aesthetic values. While, agriculture in core deals with plant cultivation mainly for food and fodder which may include animal farming altogether in a vast area or plot of land.

The main domain of horticulture takes account of plant identification, propagation, disease management, plant breeding, crop production as well as plant physiology and biochemistry. Additionally, the technique also includes plant conservation, land restoration, urban ecology, soil management, landscape and garden design cum management. Such vast range of study and applicability helps the students to increase the theoretical knowledge of plant biology along with practical skills for resourceful outcome. Learners gain understanding of plants and ways to take care of them in correspondence to the environmental factors prevailing such as seasonal changes and disease management. Horticulture training also helps the students to expertise in soil quality assessment and administration for better plant growth, development and productivity. Nursery development and management techniques are also taught parallelly during the study making the students aware of the possibility to turn the acquired skill into an efficient source of income. Horticulture professionals also learn to establish proper designing principles for landscape gardening.

With such vast skill developmental course outcomes, students find their way to work as gardeners, growers, therapists, designers, and technical advisors in the food and non-food sectors of horticulture. They may find job opportunities in areas including landscape design, floral event planning, crop development, nursery gardening etc. Graduates in the subject follow jobs like horticulture engineer, green keeper, advisor, researcher or teacher. In today's times the industry prefer persons who not only are skilful in hands, but also are capable to identify plants with both their common and scientific names and fully understand the care and maintenance of a large range of plants. Thus horticultural studies can provide such platforms for knowledge improvement and proficiency in work as well as ways to even build professionalism and earn livelihood.

Main Objectives of the course –

- Skill development and livelihood
- Development of strong economic background
- Restoration of global green carpet through eco-friendly approach
- Motivation for economic and aesthetic value of plant kingdom


12/03/21
Principal
MORIGAOON COLLEGE

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Total: 40+40+20= 100 Marks

THEORY (40 marks)

Unit I:

Introduction to Horticulture: Prospects and scopes of horticulture in Assam.

Unit II:

Nursery: Components, Raising and Management; Vegetable Gardening;
Orchard: Planning and layout; Ornamental Horticulture (Outdoor gardening);
Indoor Gardening; Bonsai; Hydroponics.

Unit III:

Plant Propagation: Definition, Sexual and Asexual methods, Cutting, Layering,
Grafting, Budding; Tools and Equipments used in Horticulture.

Unit IV:

Plant Growth Hormones: Auxins, Gibberelins, Cytokinins, Ethylene, Abscisic
acid; Their roles and practical applications in horticultural techniques.

Unit V:

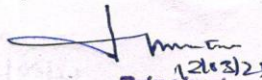
Manures and Fertilizers: Bio fertilizers, Green manures; Vermicompost.

PRACTICALS (40 Marks)

1. Study of tools and equipments implemented in Horticulture
2. Preparation and Layout of Nursery beds
3. Practicing propagation methods- Cutting, Layering, Budding, Grafting
4. Application of Growth Regulators

Internship (20 Marks)

- Visit to a commercial nursery/orchard in the locality


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